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OFFICE OF THE SECRETARY

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April 4, 2000

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> Ms. Magalie Roman Salas Secretary Federal Communications Commission 445-12th Street S.W.

Washington, D.C. 20554

Re: **Adaptive Broadband Corporation**

Ex Parte Presentation in WT Docket No. 99-168

Dear Ms. Salas:

On April 3, 2000, representatives of Adaptive Broadband Corporation ("Adaptive") met with Mr. Adam Krinsky to discuss issues raised in the Commission's rulemaking proceeding concerning service rules for the 764-764 and 776-794 MHz bands. Todd Carothers, Vice President of Marketing, and Jeff Musser, Senior Systems Engineer, attended the meeting on behalf of Adaptive. Judith St. Ledger-Roty and the undersigned counsel attended the meeting as well. At the meeting, Mr. Carothers and Mr. Musser gave the attached presentation.

Two copies of this filing are enclosed as required by Section 1.1206 of the Commission's Rules. Please contact the undersigned if you have any questions regarding this filing.

Sincerely,

cc: Adam Krinsky

> No. of Copies rec'd Ot / List ABCDE

Senior System Engineer Jeffery Musser

FCC 700 MHz AB-AccessTM Review

Vice President, Marketing

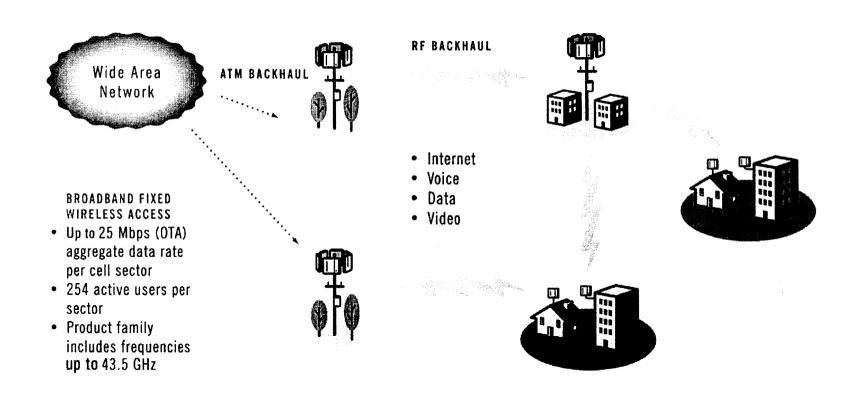
Todd D. Carothers

Adaptive Broadband Overview

- Incorporated 1968 as California Microwave
- Changed name to Adaptive Broadband April 1999
- Leading supplier of terrestrial microwave radio
- Approximately 180 people (after divestiture process)
- World-wide market presence
- Headquartered in Sunnyvale CA
- Listed on NASDAQ (symbol: ADAP)
- Acquired Adaptive Broadband Limited August 1998
 - spin-off from Olivetti & Oracle Research Lab, Cambridge UK



The AB-AccessTM Solution





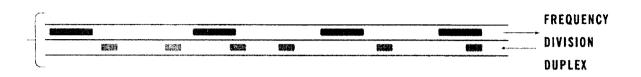
Current Customers & Products

- Current Announced Customers (Others under NDA)
 - Carriers
 - US West
 - Internet Service Providers (ISPs)
 - Fuzion, BroadbandNOW!, DataCentric
 - International Deployments
- Application Offerings
 - Delay sensitive and non-delay sensitive traffic types over the same converged link (i.e., video, voice, data, Internet)
- Product Deployments
 - U-NII today
 - MMDS & 3.5 GHz in prototype; deployments planned for 2000
 - Submitted RFP for 700 MHz

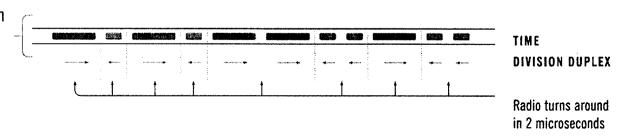


Handling Asymmetric Data

Fixed partition of spectrum into forward and return channels

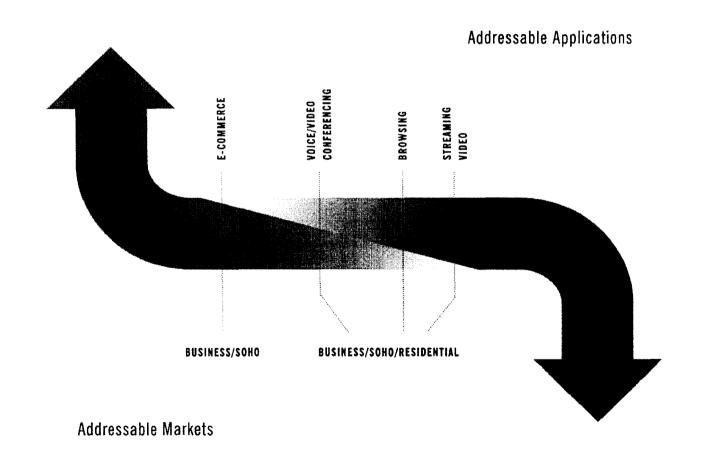


Dynamic use of spectrum reflecting demand and priorities





TDD Addresses Multiple Applications, Markets





Why 700 MHz?

- Unlicensed National Infrastructure Information (U-NII) band great for
 - quick entry to market
 - high bandwidth
 - fixed CPE with Line-of-Sight
- 700 MHz advantages
 - in-building penetration
 - foliage penetration
 - small, portable customer equipment



Current FCC Rules

- Power limits are band-specific
 - 1000W EIRP for 747-762 MHz band (base equipment)
 - 30W EIRP for 777-792 MHz band (fixed, control and mobile equipment)
 - 3W EIRP for 777-792 MHz band (portable equipment)
- Out of Band Emission ("OOBE")
 - Licensees must attenuate the power below the transmitter power (P) by at least 43+ 10 log 10(P)dB, or 80 decibels, whichever is less ("43 + 10 log P"), for any emission on all frequencies outside the licensee's authorized spectrum.
 - More stringent limits for emissions on frequencies in certain services.

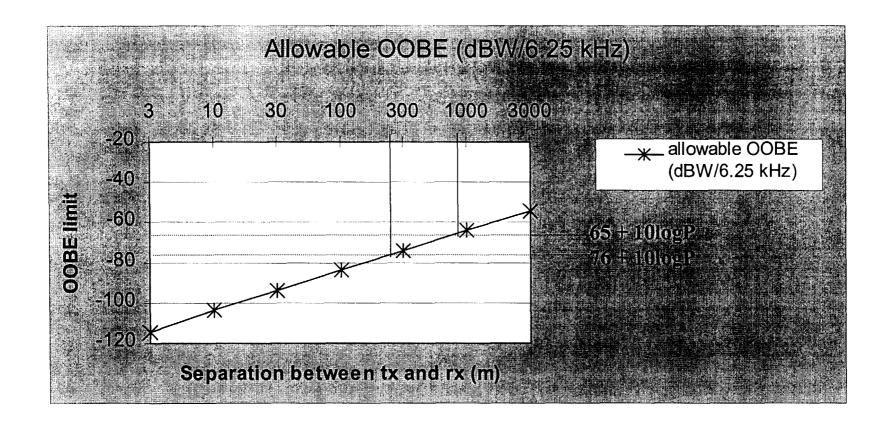


What We Propose

- Tie power levels to equipment type, not band
 - 1000 W EiRP for base equipment
 - 30 W EiRP for fixed, control, and mobile equipment
 - 3 W EIRP for portable equipment
- Allow both FDD and TDD equipment in each band
- Out of Band Emissions reduced for in-band OOBE to allow co-existence of TDD and FDD systems
 - match what is already technically required for interference into other services
- Without these rules, TDD technology would be excluded from 700 MHz band



Interference Zones





Computation of Interference Zone

Out Of Band Emissions

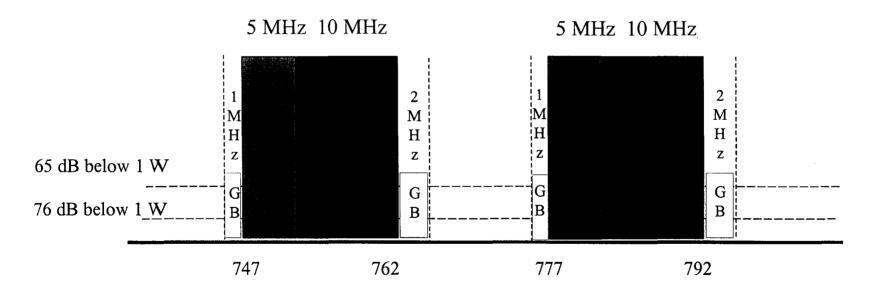
OOBE = Sensitivity - margin + FSPL + Clutter loss - Rx Ant gain - 30 dBm/dBW - 10log(2500/6.25)

Sensitivity = -102 dBm/2.5 MHz Margin (below noise floor) = 6 dB Clutter loss = 10 dB Rx antenna gain = 6 dBi



FCC's Current Rules Already Accommodate Adaptive's Proposed OOBE Limits for Some Services, *e.g.*, Public Safety

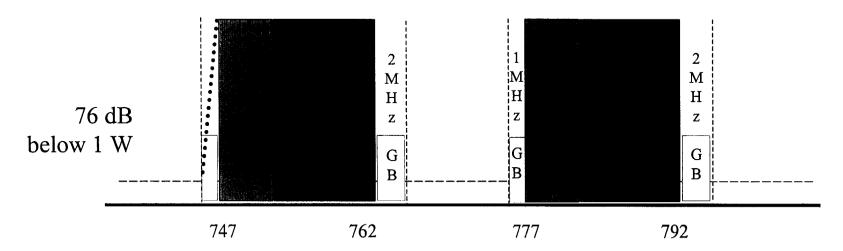
Emissions outside licensed band into public safety band must be reduced to 76 dB below 1 W for base transmitters, and 65 dB below 1 W for mobile/portable equipment





Proposed Rules for Base Stations

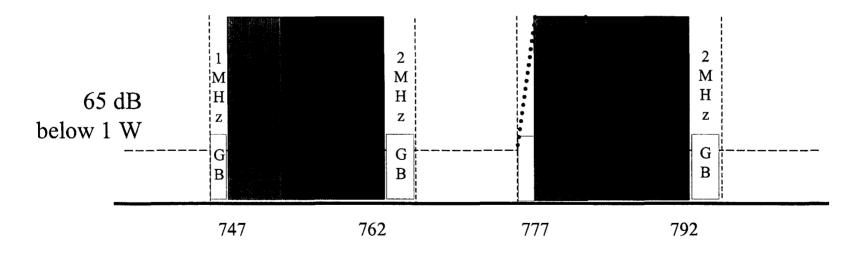
- For base stations, emissions outside licensed band into adjacent bands must be reduced to 76 dB below 1 W within 1 MHz from each band edge
 - both top and bottom
- This is technically achievable, since it matches the existing OOBE rules for interference into the public safety bands by 700 MHz base station equipment





Proposed Rules for Mobile/Portable Stations

- For mobile and portable stations, emissions outside licensed band into adjacent band must be reduced to 65 dB below 1 W when 1 MHz from each band edge
 - both top and bottom
- This is technically achievable, since it matches the existing OOBE rules for interference into the public safety bands by 700 MHz mobile and portable equipment





Conclusion

- TDD is an innovative technology that can be used in the 700 MHz band to address the growing needs of consumers for broadband services while making efficient use of the available spectrum.
- The FCC should adopt the rule changes proposed to enable use of TDD technology in the 700 MHz band.

